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## ON THE INJUPIOUS EFFEOTS OF CHLOROFORM DURING LABOR.

 Minimiry Cult, and and Chilarent Roynal Culiege of \&urgwom, Iroland, \&e.
As, at the present time, the subject of chloroform iathelation is again smb judice, 1 foel it incumbent upas me to raice my voice against its employment in midwifery, and to lay before my professional Hethrea my reasuns for the adoption of auch a cousee, which I sincerely truat shall have some mutght with the unprejudiced, and which may, perchares, call the moro serious attention of some, $t 8$ eot of all, of those now too deeply wedded to tie un, to the dangerous, and too often fatal results conenquent theroun; in which, if I but even partially anooped, I aball conalder mysoll well repaid.
From experience, repeated observation, and the pellished, as also the ocherwise axpressed opinions © chowe who agree, as woll as of those who disagree with me upoa the subject, I am firmly conFised that chlorofurwa, when inhaled duriag labor, niy fruitfully predisposes to hemorrbuge, puerpral lofiammation chest afiections, and $w$ other dmanes dotrimental to hoalth and life, which it engerates if given daring their presonce. It also lyt the founctation of diseases to arise at a more cmant period, and chus increases the mortality in chadbod, and eubequent thereto. I have knowa perperal inflammation trequently to have followed fo thatation, and too ofton with a fatal reault; in fiet, comie years since, when it was more fashiunchic, ead was given with a more lavish hand, a great mortality obtained amongst the patients of some Nw enen who administered it-so much so that a popalar outcry wes raised against its employment. It tha majorly of thoee casea, puerperal fevar was the cause of dsach, which, when thus raised, beigg, 4 1 Emisy beligve, elways inicictlous or otherwise commanicable, becaze epidemicised, fier which ovea thoee who wisely refused the drug, "charmed th arvar so sweedly" were thus inadvertently, and, saome instances, hopeloesly poisoned.
Is support of theted poelicione, I shall first refer to the sorenal published Reports of the Dublin Laying In Eoppital. We find, on reference theroto, during the nastershipt of Dre. Oollins and Johnson, when cthoroform was not inhaled, that the mortality was such lees then duriog that of Dr. Shekleron, when the peraicions drug was used-us thes:-In the fret roport are recorded out of 16,114 delivesine bat 164 doaths, or 1 in 100 ; in the second, out - 8,684 deliverioe but 65 deaths, or 1 in. 102 ; Whe- in in the third, 13,748 delliveries are given, and Les deacher or 1 in 8411 But of these last ceree 13,408 of them were not chloroformed, of Thith only 133 died, or 1 in 100 , bus of the remain548, whe took the drug, 30 died, or 1 in 12111 II aghin, we axamine tho reported cases of chlorohem adrinistration by Simpeon and Denhtm, we stall fand that of 246 cases mentioned by the form-
er, 5 died, or 1 in 49 ; and of 86 by the lattar, 6 died, or 1 in 1111 And, by adding all these rocorded cases together, we have a mortality on the whole of 1 in 16111 By agrin congaltiag those reports, we perceise that in Dr. Collins' masterahip there occurred 97 cases of post partum inflammation, or 1 in 169 ; in Dr. Johnson's, 62 cases, or 1 in 107; but in Dr. Shekleton'a, 150 casea, or 1 in 91. Of those 150 cases, 20 followed upon chioroform inhalation, or 1 in 17111 and in the remaining 130 cases, in which it was not employed, the average mortality was only 1 in 103. In Denham's report we find 4 cased, or 1 in 14 ; which, with all the recorded casea, strikes an average of 1 death for every 161 persons who took chloroform 111

We also find that during Dr. Collins' meatership, puerperal convulsions proved fatal in the proportion of 1 in 6 ; whereas in that of Dr. Shekleton, When under chloroform, it amounted to 1 in 311 and in Denhamis cases to 2 in 3111 or, on the whole. to 1 in 2f111

It appears that, during Dr. Shekleton'a tenure of office, post partum hamorrhage occurred but once in overy 257 cases when chloroform was not nsed; yet aher its lubalation this complication was prosent in 1 of every 49 casep. In Dr. Denham'is report it was present in 1 of erery 19 cases ; making. on the whole an average occurrence of 1 cate of flooding in every 301 cases that had taken chloroform.

With respect to the zortality atter perforation, the report of Drs. Hardy and MrClintock shows i fatal case in every 6, and that of Dre. Sinclair and Johnston 1 inevery 5 ; but if wo go a little below the surfince in the latter report, and examine lato 09 cases of perforation, all of equal severity and dauger, we shall discover that of the 29 cases in which chloroform was inhaled 9 died, or 1 in 31 ; puerperal inflammation occurred 10 times, or 1 in every 3 eaces; and hamorrhare followed in 3 canes, or 1 in every 10 ; whereas, of the 70 cases in rhich thls drug was not employed, ouly 6 women died or 1 In every 12 ; puerperal inflammation acome on. $\bar{y}$ in 3 cases, or 1 in every 23 ; and in no cane did hamorrhage oceur.

Many have teatified to the fact that uterine action has boun lessened, and oven caused to cease, by ansesthetics; as also that their effict on some is not commensurate with the quantity of the drug employed-as thus: a very large emonit not havo ing any effect upon some, whereas the inhalation of a rery sumall doee, oven of a fow drope, has prow duced elmost deep coms in others. Dr. Denham says :-"In some, If left to asture, the labor would prohably have been compleced in a somewhat phoctor apace of time. The advantages to be gained by chloroform in some cases will ant be found an adequats comperantion for the loss of powrer sustained in the muscles of animal and orgunic life; and, were we to continge its nas, I do beliere that the patienta would remain undeliresed
for hours, or even days. The casea that apparently require it most-iodious and difticult labors-are those where it often appours to be injurionta, by weakeniag the pains or relazing the muscles of arimal llf." Risby anys:-"Wo meet with casey, evory now and then, where chloroform undoubredly retards labor, and in somo cases likely to call for the use of the forceps."

Dr. Robert Lee mentiong cases in which "uterine contrnctions were arrested, requiring the uso of the fircerps, and the destruction of tbe child by the perforutor."

Tylor Smith "has seen chloroform stop labor midinay."

In some of the cases recorded by Sinclair and Johnston, uterine action was impaired.

My friond Dr. Young, of Xonaghas, asy, in a lettor to mo:-"I believe chloroform in many inslances to delay the labor, by causiag the pains to come at longer intervals, and renderiag the expolalive efforts of the pationt leas efficient, owing to her insonsibility to sufforing."

Merriman hes mentioned a case in which the utorus was so paralyzed that it failed to act aftorwards.

Snow rajs:-" It is true that a full dose would, at any time, suspend utarine action for a faw minutes, br as long as it might be tept op."

On looking into Drs. Sinciair and Johnalou's report, we hind "two cases in which rersion wes very dificult; and two othere, in which that operation was impossible, where chloroforn bad been iubaled."

Murphy thus speaks:-" lu a case of veraion, I -never experienced so much difficulty, in consoquence of the atrong contractions of the ateriae fibres about the chilld."

Barnes remarks:-"In many cases it does not faciltate the operation of veraion, the uterus resisting the introduction of the band.
Puerpatal, byatorical, and opileptic convulaions, mania, parnlysis, and inasaity have followed on its use. Cases are recorded by Montgomery, Sinclais, and Denham, in which puerperal coarulaions occurred after its omployment, Sinclair givea two casos of byaterical convulaions, in one of which violoat muscular action was induced and restlessuese continued for a cunsiderable time after the inhaler was removed.

Murphy states tbal, "in dentistry. bysterical women bave becn seized with fiss when uader its influence."

Soow asierts that "hysterical pationts, as soon as they lose their consciousuess from she offects of the vapor, are sometimes allacked with a paruxyam of bysteria."

Dr. R. Lee eaje:-"Epilepsy has been so induced."

Sloclair records one case of opilepty.
Soow and M. Fiz bave staped " lliat persons subject to epilepay are lizely to have a fit brought on by inhaling cbloroform."

Ramabotham "saw three cases of 'puorperal manis so cansed. A friend of bis also sant one similar cace."

Eecharland "mot three other cases similarly produced."

Tyler Smith stated "that be bad seen mania from lie use."

Parke relates the cape of a ledj who had chloroform in ber third labor. "8bo ather dolivery,
complained of violeat pain in the head, becans?
delirious, tore the nurac'u gown and the bodolothes into piscea, and was perfectly maniagal."

Nr. Banner thus spealy:-" A pationt became deliriouy, und continued so during the day and greater part of the nigbt, after lte use."

Haartman "saw a case of beadache terminating In paralyals, caused by this drug."

In one of Dubois' published ceses, numbnees of the fingers, and in another the samo condition of the loga, supervened, and had not subulded at the ond of twonty-four hours.
In Deabem's roport I find one case of come aftor ubloroformio inbalation.

Dr. R. Lot says "that ingality has followed on ite employment; that dangerous and fatal peritonitls and phlobitis have been caused by its inhalation."

Two or three of Denham's cases ware seized with rigors; and Joes mentions others with dangarous fits of syncope: and in this he is borne out by the following, which I find recorded amonget Deaham's cates:-"While inhallog, the palse beceme very weak, and sbe gave no algas of oonsolongnese; aud immediately on the birth of the child the roupiration of the patient comed, and the pulse becane impercaptible: the application of cold water to the face soon revived ber, and she went on favorably for come days; but diarrtcea, with extenuire inflammation of the mucons membrane of the ileum set in , and she died on the fourteenth day:"

Sinclair and Jobnston record nearly a dimilar case, as thus :-" Thu pulse suddenly beceme imperceptible, and respiration appeared to have ceased. She subsequently died of phlebllls." And thoy give another in which collepse occurred, and she aleo died with symplome of phlobitis.

Dr. Bernea stated-" That he had himeelf given chioroform to.facilitate the oxtraction of an adherent placenta, and had witnesesd suoh exceeding prostration for elght hours aferwarde, eto make bim, and another practitioner who assisted bim, approhonsive of the instant death of the patient."
Nany are of opinion that the inhalation oi chloroform predisposes to laceration of the perineum; indeed, some of the published caves would tend to favor this idea. In Siaclair and Jobns. toa's report we find that, in the recorded oases, it occurred once in 27 ceses ; and when not emplojed, the accident happoned only once in 93 cases. In the same work wo find three casos of ohost affection eggrevated by this ineans, two of which vuccumbed.

Dr. Riaglad in reply toia letter from me, writes. "I bave seen chloroform frequently used in puerperal convulolons, and have need is myself in connection with the practice of the Coombe LyingIn Hoapital; and the conclusion I have come to is, that I will nevar egain use ith or sabition ite ree, in puerperal convulsions. I have obeerved that, however cetinfectory ite omploymeat miy appear at the tim; it has bean almeat invariably followed by bronchitle withia sbout is hourt, and that the pacionto have sank rapidly under the lattor ativotion. I have seon chis 60 inequantly that 1 cannot but look as obloroform asd broanhltis, under the ciroumatances I have namedy-me canse and. ofbet; and the mortality from the erobrequent broachliti, an the ectual realt of the amployment of ohloen form."

Barabothay relatee the eace of " a lady who Win solsud with dyapacte, with excecaivo Ilvidity of
the face, and all the algna of engorgement of the lungs and heart, and died in convulaions six houra aflor."

Murphy has publiahed a case nearly sirailar; be also admite " that vomiting, nausea and teadeche nometimes follow on lit use." Nansea and romilIng wore also presont In one of Denham's aases.
higby atatoe, "shat intense hoadache, and eren vomiting, are consequences of ite use."

Parke give the case of a lady, in whom, after chloroform inbalation, flooding came od to a fearful oxtont, and incensantsicknoma. He managed to oxtract the placenta ; and, owing to the foeblo contractions of the uterus (and thls latter condition, he is conßident, it often produces), the wee kept grasping It for four or five hours; the vomitlog continued for eight hours withont intermisaion; the beadache remajned for weeks.

Tyler 8mith "beliered thet poat partom hamorrbage and retention of the placenta occurred more frequently after ite uee than without it."

Montgomery was of opinion "that it predisposes to retalnad placenta and hemorrhage."

My friend Dr. Young, before alladed to, saga :"I have blamed it for causing a longer delention of the placenta, and for occamional arker-hemorrhage, owing to the lazy and ineflicient contraction of the uterua. After lis use opiates have vary little effect; oven very decided doses, in any form, have not been followed by that trapquillity l bave hoped for, in that violent pain which I have to onen found to follow operations when chloroform had been used."

Murphy apeaks of being obliged in "press upon the uterus to expol the placenta, in two cases, aner chloroform.

Some of the loudest advocates for chloroform inbalation in labor have, in order to counteract ite deloterious effects upon aterine action, recommended the co-sdminiatration of ergos of rJo ; which practice remalade me of the atute phytician Who, to be sure to hit his pationt's disease, proacribed for him the comblantion of a stimalant with asedetive.

Ousack and others have also leatified to the deletorious offects of this drug upon the cerebro-spinal syatem of the infant.

Dr. Avalling speaks of "a lady who had chloro form in three labore, all of whoee children, when upwell, had for yeare aforwarde the amoll dletinetly ofl their breathe. This ledy would never take it egala."

Dr. Jeokson (en American) thon Frites upon the subject:-" When ohloroform in inhaled into the lupge, the ozyeen it abetracted from the blood, and, combiniag with the formylo, maken formic acld, white the ohlorine comblaes with the blood at a subeltate for oxycen. Thut aportion of the blood beoomes ehamically changed, disorgenied, and readered andit for ith Fital ponctione.

Dortham eyvi="There are cagee in which chloraform appeared 4 bo not only uselesp, but, when peresvered in, poisitively Injurious." and agala :-" Ia giving ohloroform we lacur a cortain amonatiof prosent denger, and perchapce of remote 311 eflutie."

Dr. Robert Joen, in roply to a letier from me, asys in could sive you a groat number of caces in which ohloroform wee lot only injurioas, bot ratal."

Dr. Green mald :-" ife agreed will Dr. Lee in sayling that we wore quite onacqualsted with owe
tenth of the evil effecte whioh had resulted from the use of chloroform, particularly in Scotiend."

Dr. Duacen, io a lettor to Dr. Leeo, thus writes:"Your oase of chloroform doath in midwlfery is, to the beat of my bellef, not the only one In'Scotland. I was called, too late, to a case which died suddenly white taking it in amall quantity."

Dr. Campbell, of Ayrshire, records another case of denth in labor from its use. Mr. Oarter says "that in two cases its effects would appear to have been pernicious."

Prof. Faye, of Christiana, has also recorded n fatal case of jabor after its use.

Dr. Rogore asid" he knew of a case where death look pince apparently in consequence of its use in midwifery."

Dr. Barnes says :-"In ordinary foroeps cases chloroform certainly is not required, either to facili. tate the operation or to allay pain. Indeed by its ute in auch cases we lose one very valuable indication in the loss of our patient'n sense of feeling.

Dr. Chas. Kidd does not consider ite use deroid of danger, as he advises the physician who adminIsters it "always to carry in his pocket n portabln galvanic chain or battory.

Drs. Kidd and Richardson are reported as having seen many deaths after its employment ; and the former gentleman "to hare seen about 300 cases reatored to life or rescued after they had boen prononaced dead.

I would agk, in the noune of cominon sense, is it wlthin the bounds of reason to believe that a medicine can be employed innocuonaly with the pregnant fomale, when confensedly its use bas often been followed, not only by dangerous, but eren fatal results under otber circurpitances, as testified to by Dre. Kidd-and Richardson, amongat many othern, at also by almost orery periodical wo take up.

We heve been cold that across the Tweed death has not, in any instance, followed upon the inhalation of chloroform in labor, whereas some have becu since recorded; and not very long ago I was informed, by moro than one phyaician practiaing in Scotland, that many have so occurred there, but not made pablic, jet well known to the profession.

If is also a fact that some who have written favorably on lis use have aince changed their opinlons, bat hare not anid so publicly. Some give it only in name, or as has benn atyled od la Reine, maklag their pationts believe that they are asved from a rest amount of pain, whon in resility they hiave scarcely inhaled a singlo breath of it.

We very frequently see better and anfer recoveries after cadions and pelaful than after rapld and painlese labors, and the latter are not the leas likely to be serionsly complicated; indeed in former day a, when, happy for the perturient fomale, obloroform was unknown, and when meddesome midwifory was etrongly reprobated, euch an opiaion was encortalned.

Eren though it were possible to direat chloruform of its deogers, it does not, whas been already sbown, always produce the advantagos oxpected from tie ase, at in rersion; for indeed not a fow Instances have been recorded of ite haring been an impediment to this operstion, which in some cases could not be ovarcome. I oanpot ene ay advantege deriveble from the inhalction of this polaonous drug is eacee of retaleed placenta, as generally scoh a complleation is eaceed b;' inaotion of the atorat ; and oar objeot, thartfore, eaght to be to indace nteriae sotion, aurely not harther to paralyse it.

Every practical man hails after-pains as malatary, especially after quick and painleas laborn, and would not dream of interfering with their whole some action, taless very severe, for so00 bours aflar delivery ; ret thoes miaguided chloroformiste think nothing of interfering with that snfo action as times when the adrent of bemorrbage would complicate matters more serionaly. The otber objections to its ase at other times, under certain circumstances, are equally admissible bere. I think 1 hare now demonsurated not only by my own experience but also by socme of the higbeat obatetrical amthorities in ibe lapd, that chloroform inhalation is far from being a safe remedy in childbed, and should not thea be emplored.-Dublin Quarterly Jowrnal of Medical Scionce.

## Cauada ezauct.

MONTREAL, SEPTEYBER 15, 1863.
In ibe city of Montreal there are two Medical roliegess an English and a French one, the former leing in connection with MeGill Cnirersitr, and ibe Montres! General, and Cnirersity Lying-in Hoapitals. In the latier. "LEcole de Medicipe et de Chirargie," the lectares are ielivered in the French hangage: it bas the great adrantage of taring uoder is control one of the largest and tices: bospitals in :he Pouriace-the Hotel Dien ; it tas idso the Sie. Pelagie Bospiul for Midrifers practice, azd La Dispensaire de la Proridence, -isere orer 800 oni-door patienta have been prescribed for within the part three monturs: And anocher is about to be opened ander ita gaidance in condection with Les Dames des Sarars Grises.
Tiae Eaglish College gets the greater credit for saperior pbrticians. becanse the? practice among ourselres: the Fredch 200 consider theirs the more excellear for a similar reason: the trath probably lies midway-for mentert is not made in either.
To the stodens in medicine, YeGill Colleg? possesses many adrancages orer its riral-unfair adrantagea, glibed by partial legiakation. Tbey may be briefy slated as tollows:-
Firatly. Wbilst atcodeat atteoding the Eagliab College requirse bot thee years and a belf of nuady to obiaia bie degroe and Liepare to prectice, the Lav demande foor full vears if be attendy the French ove. Aod this three reass and a balf may be made a toonth or two lese if denired, for matriealetion tickets are cranted an late as Chrictana; and last winter we learn that thay were given up to the wonth of Febraary. Again, shis etron jears and o bull may be fartber shortesed to two and a haki, by prodocisg a orrificate from any medical nen that the applicart inas atried far a jeas pro viocely; this capanor by done in the other sebool.
socmily. 1 stodoet is the Eadiah Collang beo
 mis suadion, and han the priviego of roceiviar the clumed examination at any peried up to the tive of the flad one for bi doopue. Ben what attinting its Irused retroel bis miedies one ouly bo rectrand froe thin armiontion, which mont ho to the College of Fyricin and Emarom of !aw Camen.

And should a atadeat be rojected by the bioard of examinert, be would yet no credit for his time were be to attend the Freach lectares, bat be can at once enter MeGill College, and go on with his trodies. Tbe clasaical examination of MeGill Cot lege is very easy, certificstes being readily obtaibed afles a month or two apent in the atudy of Latin. We have never beand of a stadent being prevented from gradanting for want of knowledge of this kind; and bare known stodents to have pansed it Who were unable afterwards to tranglate their diplomas, or anderstand the Hippocratic osth they were compelled to take before receiving them. It woald be better were thls part of the ceremony pot into English.

Thirdly. The English College has the power of granting degrees-the French one possesses no such right; this wane it feels more than any octber: were they enabled to confer degrees they would be the mare raluable from the ertra laboor necessary to their attainment.

Fourthy. The English College has the right of extmining its own studenta, whilst thooe of the French are compelled to go before the College of Physicians and Surgrons even for the examination for license to practice.

It will then be seen that "L'Bcole de Medicine" laboars undgafmany disedrantages, notwithstanding which irs classes are always Tell allended, and ito profesors ctand deservedly bigh among their countrymen. In the sppointments of profeceorthipe, the Fresch school possesces a decided superiority over the English one, an ther are always made for ability and fitness for the chairs to be ocenpied. In McGill College, on the contrary, thes are pat in by roatine, as in the army, withont regard to qualifcation or talent. Any young man may become a professor in McGill Collegr with patience and a constant effort to latter and please thowe above bim, provided he can get elected as apotbocary to the Montreal General Hospital. Each racancy occurring in the College makes one step of adraco for every one beneath is, and consequently for him. He hare had a demonstration of the warking of this ssitem within the pant few months: the house sargeon resigned-the apothecary was qujetly ingtalled into his place-nobody roew anjthing abont it ontil it was all orer. Tbe demonetratorship of asatomy is abont to be racsted ; is is not pecemary to inqpire who is to receire it-mone bat the bouse curgean will be appointed to it-be in already prepering his roand-roble-'tit the fachion-all the stadante will sigo it-ibey ask for his eppoiatment -what is it to them whe gets in I Is will be donenot for the petition-mot for him ixperiesce and fitnees, -not becacoe be in the best wan that ceas be found,-but becaune it in his tars next Another vacascs oceuring, thin joung man geta alinion profmecorchip-pertiape of surfery, withoel ever baring parfarmed hall a dosen oparation is his life. It bay been dom beforo-it will be dowe aguis.

The rocelt of all thin la, that the tavent of the cometry in mot mpremed in thio forutration, foe what sman of efinit mich lem of ability and axperi-
 to secept a plice bapeath a lot of joangut neat,
 Till ho enets depend for intrio adrapesinens We


 vopis arning tron the betren And tie is
not for the few professors elected-long ago, from their superior talenue and experience, McGiil College would be bat a second rate inatitation Lo-dar. Bat these clever men cannot live for-ever-who will take their places? is it to be joang men who are to derive their experience in the rery seats they occups, which they change and \{nuercbange smong themselves without regard to Gtress, an achool-boys do at marbles? The true professors smong us look on the play in silence and wonder-what next?

## Gito books.

The Priyciples ayd Practice of Obstetbics, by Gunving S. Bedford, A. M., M. D., Professor of Ubsterics in the Cairersity of Sew York ; 3rd edition, 8ro, pp. 7i5. Wood $\&$ Co., N. Y.
Eminentls practical onrselves, we necessarily admire this qualification in others, and the medical work before us fully deserres our commendation in this particular. Writen in a concise and plessing sirle, replete with practical facts, remerks and instructions, it is really an excellent work for either medical man or sudent Apart from his own extensive experience, our zuthor quotes from over three hundred different eminent writers in support of the opinions advanced. Besides the very thorough ureatises on labor and its complications, he eaters fally into the anatomy of the organs of generation, and menstrustion, and reproduction, and finisbes with anasthetics. The Cnited Sistes have siways been celebrated for their anthors on midwifery-and this one folly sustains their repatation. We do not, therefore, wonder at its being adopted by so many collcges as a text book: it woold rather bave sorprised us had they not done so. We congratolate bim on its $\pi e l l$-merited success.

## OS PLECRISY.

By ayde saltir, y.d., T.e.s.
Being part of a Clinical Leeture delirered at (haring 'rass barpies. (Comelmded.)
The Prognosis in all these cases is entirely farorable. Aboat the cases of the girl and lad, in which there was no effasiod, there has been from first to last, pecaliarly litule besides the local condition. That local condition has never been of a serious character. In the case of the girl, the pleura of the lert side has merely to resume the state that the right pleara has already resumed, and which a fow days has safficed for it w resume, for her to be well. In the boy, as far as one can judge, the smoothing of the membrane will be alower process. Tbe man's case, as wo have seen. is rapidly improring day by dey, -each day, the physical signs mark : sabsidence in the effasion. It is now only a week sad a day since $I$ frrst listened $t o$ the cbest and found, in the right half of it, spparently serun, et preteria nikil; and now there is bat a small quantity in the most dependent part of the plenral carity, and the lang bas all batso-occapied its old situation. A fer steps more in the same direction, and every drop of erom will be gone.

As far at physical eigas go. I will vanture 2 prodict that the tro lect that will be lost will be the percarsios-dulnems and th. diminished rocal fromitus ; the percosaion-dulpess last of all. It is wonderful bow thee two tigne hang about arter plouritic aftacion. Lomg after netaral verpiratory murmor has been re-einbilshed, long anoz overy truce of agophoay has dimppenced, we shall probably find traces of theat two cifer. I vemton to pro-
diet this on the atrength of what I here observed in other cases. What is the canse of this lingering per-cussion-dulness and imperfoctly re-eatablished vocal fromitas, I find it very difficult to guess. It is certainly not dependent on lung-compreasion or unabsorbed effision. The only thing that I can imagine is, that the film of gelatinous fibrine-ciot, to which I bare already referred, so often fond lining the cavity of the chest, and covering the surface of lang in plearitic hydrothorax, may, by intervening between the lang and the chest-wall, act as a domper, and in the one case stop the condaction of the percasaion-stroke from withoat, and in the other the condpaction of the bronchial voicevibrations from within.

How soon the girl and the young man will lose their friction-sound it is impossible to asy; nor does it matter. Pleuritic rabbing is one of the most rariable and uncertain of physical signs as regards its doration, and one of the least important es regards its prognostic indications. You may jus: catch it for a day, or it may persist for weeks -res, for months ; and if it does to persist, aman is not a whit the worse for it, if he has recovered his health in every other respect. $A$ man in whom all the fanctions of life are perfectly performed is not the less a sonnd man becanse you bear in his side a sonnd you do not hear in another's. I remember a patient in King's College Hospital, 10 me years ago, who was kept in the bospital several weeks after be was in othér respects well, in consequence of strong pleuritic sonnd and fremitus in bis left pectoralis region. The man was a strong stardy fellow, and made himself. so generally aseful that be became a sort of supernumerary servan: of the hospital. We used to amase ourselves, I remember, by making bim strip, and feel with ithe palms of our hands on the pectoralis this frictionthrill each time be breathed. At last the physicians were ashamed of keeping him in any longer ; and be len the bospital with noi only the soand, bot the fremitus, as strong as erer. In Wingail's case, the friction will rery likely last equally long. In the girl's case, howerer, I should expect that the rabbing word sown disappear, merely becanse it has so quickly disappeared on the opposite side.

There is one carions question that these cases suggest:- What: is the determining canse that'gives soch different sastomical results in different cases of one and the same disease? Why in one of these cases should there bare been eftasion without rougbening, and in the two others ronghening without effrion? Stall we find the explanation of this difference in the condition of the blood? Shaill we fand it in any diathetic pecaliarity? That it is not to be fonad in the natare of the exciting cause seems pretty erident, becanse in these three cases the exciting canse was ode snd the same.

I must not dismise you withont saying jost one word about Treatment.

Yon will hare obeerved that in all the cases my treatment was very simple. I aimed as three or foar definite and intelligible objecta with a riew of placing the parta ander the conditions most favourable for indociag and maintaining the nataral reparative propemses. Tbese conditions in my opinion are:

To give fanctional and physical rest;
To alley pain by direct sedacion :
To keep up rital power.
To cir functional and phymical reak, becana the pars is crippled, and to wort a crippled part is to
trep it crippled ; it is to keep it at a constant dium rdrantage; whereas is ought to be pinced at en madrantage, for something is to take place in is which is not tatiog flece in the sound prof, nameIy a reparative process over and ahmpe ils ordinaty mutrition and function.

To allay paia, becanar phin and hesilhy wisitiongl action are incoun, ratiblamea long as the nue anbsisty, the other will be snspended; And this no doubt, fom the banefnl and listnibing inflreare which yain excreises on the norvons anpmintembence of the cinvilation of the part.
To keep up vital power, bercasp the hiuher the otaderd at which this is kept, the raore anergeticwill be the processas lealing bark tor condition of health, whether of irpmition, of shasorption, at; whaterer they may be.

Is the cases of Rusgell and Wingall, in which thene was no aftrasion, but nerely the prits and friction, I endentounemi in mecure these conditions by forbiddiag exertion, by the infriction of sedotiven, and by the administrathon of quiniae. etc. And even with the man Franklin i had but little more to do thad this. I aeither thed him, nor leecbed kim, nor blistered him, nor purged bien, nor attimonialised him, nor mercurialised, mor "ised him in any other way, except aid my best so sthenise him. His pain was mach grester than that in the other casex, mo 1 gave him in addition ifequent doses of sodetive internall. As far as we sar joige from results, the rosuuter-irritation of the turpentine fomeniations was of the greateat gertice to him.
By some perwnat a hinter is always applied in cases of plevritic pflusion, and with a view, 1 beliere, of reamoving the finid hy withdrawing is into the blisters which are raised; but if we look at the quantity coninibed in the chess, and the quantity which the iuister "drawe," Lhis setion is seem to be ciear!' imposaible . The only other way in which it can atz is asa counser-irritant, mat I think in this way it is indirior eithur la mushand or turpantine, agd had the disadrantage of nut being able to bo repented.
With s view of promoting abaurption sumpe physicians bave adrocated bleedigg in cage: of pleacitic effualon. There san be no doubt tiost the sibstraction of blood inereases the rapidity of absorpinon, \#nd, therefore, that this practice standa on rational theoretical groniln ; bus thene are strong practical objactiona 2 it ; it certainly in its general ranalt* tencis in axsetly the opposite alrection to shat whleh the reat of our tharapentics is directed to ; wad in the opintura of gocke, and amoay them the inte Dr. Todd, has a direct tandency to iacreade the wtualoa, by imporerishing the blood and rewdering it mors matery and prone to passive "jansudation. I have heard Dr. Todd rasy pr self that he thought, if in any given case of pleurisy yon wanted to produce eatraion, nothing would bo so Ifely to to so as io bleod your patient. Atany rate, if we conif, by reduring the contents of the blood-vessell, penerate an endosmatic carront ints them, and so faromr mbersption withontt tanporerichlag the blood, it would je vastiy better. I aum not sure thit this might not be done by giving cecasional smart doses of hydragogue eathartics; in any futain case of hyarothorax, I should foal very mach digposeat to try it ; exrofnlly keeping ap my patiens at the gmae tima in every way,
 lowerisg oneat of the cuthertif.

The only part of my treatznent abouc which I have any dovist is sitout the waine of the todim. In any cesa i : Which one wanta to promote as surption, rae gives iodine, as at matter of nours, extrrna!! y, internally, and binth; and one canan doubt $t$ 'at locally its efficto in this way are some limes rery strihing. Hat if yun ware to ask tant in any given race of hy irohorax, 1 had any the gihle and iry.fragable proof that the thoid had its sppaned the mosner for ita miministr- tion, I shoow say I har not. -me. Med Jous.

## TYPHAD 1 R ENTERIC FEVER.

## 


 fis moent wark on frere.
The Nict; Rosum, mithe apartment should be good size and be well vimtitated, fresh air betag showed to prass through it occasionelly, even cold weatber. Its tempre rature should be kept fer near $50^{\circ} F^{5}$. a possible, and ought never to exomad is\% when it can ko avoider; ilhough sometimes 5 the summer and antumn moatha it may be discek to cbtain this limited range.
the patien: shanid lie apon a 40 of hair matton and his comfort woult be maeb promited by hi occupetion of one bed during the lay, and anotia at night. Perfectrguie' shotid heenjeined, and hat fow nint short visits be permittend.

Diet,-Daring the first few days, the dial sbow be restricted ta the lightest farinuceons fand ; after wards, as the faver progressea, beef tea or chick brok may be alfowed. I generally direct fire balf a pint to a piat of moderately gcod beet ta in the 24 honrs, almont from the comamencement the fever, unieas the rymptoras indicate a more the ordinarily acuth discase, and consequently a nam restricted regimen. The beef tea shonld be give in small portions as a time; and it it product wo comfortable feeling or feverishases, it shonld in withhild for a $\hat{e}$ w disys, the gruel and panaila betm continued as before.

All fraits shonid te svaided, or tre used bat nper iugly.

Towards the midale or and of the second what perhsps earliar or later, eymptams of exhautil sppear, the pulse beoomer soft and compresulith the skin cool and often covered with a slamerg moisture, the patient feela weaker, and the toay assumes brown appearance. More sustaid. diet mast now be allowed, as stroager moaps, and tenter meats, and a light tonic, as the minem acids or vegetable bitiers, shonid be proscribed.

Drinks.-The thirst may be allayed by and atinks as whey, rico-water, sernonadie, spple-tm, kc., which, if desired, may be, iced. Shonld th bowels become irritated by the acid drinka, thy nust be given more sparingly, or be dibeontinut for a time. Long dranghts of any Find are apt ${ }^{\circ}$ distend and oppress tho etonuch withoat allay the thirkt; sprated waters are alec objectionaly for the same reation; therefors amall quastitica ${ }^{(1)}$ flaids, more trequentuy reperized monld be preforshit A initso plece of ice iatein into the Enouth onctape ally generally prover extromely gratefal to th patient, and may at any time be guggeated.

Ematics-II do not consider that shewo poued any other poover thana of riddiag the stomach of



when there is nucertainty as to the state of the sowels, it may liccome afrisable to erbilit sume mild lasative; but whonid even this produce undue ection of the intestinal cunal, it should be checkerd by meads of a few drups of landianum given in an aromatic draught.
In the managatert of tie Miarflura, all aperienta must he careftully avoidchl.
Sadine Misturrs.- .iodepend curn . .huuld be placed apos them. If something must the dune, howere:. to amase the patient, an unixture with citrate of potesh or ammouiz may be prescriben, ay it tedds to allay the thirst and promore tetronination to the skip.
Serebral Symplomen.-W hen there 1.4 mathe excitement, with throbbing beadache, flushit. g , reatlegsnese, and perhaps delirium, the reduction of the vacealar fulness tray the best arentoplished hy tartar ermetic, given in smail doses and rejeatell overy three or four honta, and applying a spirit lotionor ied water to the scalp previously deprived of hair; these proving insufficient, $n$ fow leeches may be put in the back of the ears. If symptoms in other organs arise to indicate thort the atruggle in to be a severe one, the question of further himndletting will be forced upon our consideration.
Blooddetting.-On comparing carefully th. tr salis of cases ireated by others with my own experience, 1 am catisfied that in mild cases, bleering is uncelled for, and tends bat to lower the rital powers, and retaid convaleaconce.
Bet in intermediate cases, when, in addition to the intestinal affection, there is unusual general ercitument, or, it may be, some organ important to lit implicated, 1 have observed marked relief from the lose of a few ounces of bluod (rarely exceeding cea), taken in the early stage of the fover, and that mides the great improvement in the feelings of the patient, the duration of the fever bas heen shortiened.
In caspe where the symplouns pursuc a rapid downward course, and a atate resembling deliriam tremens sets in, with sloeplessness, rapid, soft, and compressible pulse, cool skin, pale face, low mutturing delitiana, tremoors, and starting of the tendon, bleoding would cake away the only chance of recorery. The treatment must now consist in varm fomentations to the head, of vinegar and miter, blisters to the temples and forebead, and mastard ponltices to the extremities; supporting the atrength by wine and nouribbrasent, whilst the ancrons system is tranquilized by the interasl ompicyment of quarter-grain doses of tartar emetic with astapenth of a grain of acetatu of morphine, given in aprit. Minderori, or anlation of the acctate of ammonis, and repented every two bours antil sleep is obsainod. This is the modo of treatment introdrood asd practiced with such sucuess ly the late Dr. Graves. Tho scalp should at the same time be enreloped ith a spirit lotion, and care be takon then aoarishment be adminislored at regular intervald, and not postponed unfil the putient rwukes Pentaneoraly.
Wine-Alcoholic fluids should not be prescribed indiberminately in typhold fever, bat rather bo creadiored as an occasional remedy fer especial coes. When employed, they should be given carecally, sod at ataled intervalg, when the exhaustion in granceat, as at night, whon a little wine adminmasod with jodgmonent, is ofton followed with Thershing slesp. If it eacite the patient, oanse the poise to becime more wiry, or render the tongne
drier, its use shouid be temporarily suspended.
Alttough most applicable to the latcer stapes, circumstances occasionally erise which require the administration of atimuli without rogard to the period of the fever. The puwers may suddenly give way, rendering immediate and energetic atimilus necessary to obviate the tendeucy to doath. when brandy, in balf-ounce dinses, freqnently repeated, will often save the lif of the patient.

Diarthern.- When modrrate, this should nut be interfered with, but sbould the number of evacuations exceed threc or foar in the 24 hours, they must he rhecker to prevent the drain upon the paetient's strength, for this purpuse, a tew drois of In milanum ( 5 or 6 ), or pareguric ( 15 or 20), in an; agreeahle vebicle., generally answros very well, and may he repeated accoriling to cirrumstances. The mineral acids may often he udvantageonsly combired with the tinculure of upinm as 15 mm diInted solphuric, nitrir, er phosphuric acid, with 3,4 , or 5 mm . of the laudanum.

Enemata of 10 or 15 drops of the sinct. epiam with three or four sunces of starch gruel, is ofen a preferable more of cheching the liosenesa, when the patient can be nade to submit to them.

Bhould opiates prove unavailing, astringonte may be endjoined with them. The salts of copper, silver, and lead, I ronsider superior to the regetable astringents, for when judiciously managed, I have found themi to do all that any remedy can affoct in controlling the diarthera.

The acetate of lead I am in the habit of giving, even in the early stage. every six or right hoars, under the impression that it is capahle, not only of controlling the parging, but of keeping in cbeck the ulcerative process in Peyers pmitches, and remuving the tympanitis. It may ine given alone in three grain doses, or combined with fom a six toenth to a twelfth of a grain of the scetate of morphine.

The sulphate of copper witb opicm is also a valusble remedy : I do not know of a hetter, especially in protracted cases an oighth of a grain in pill with an equal quantity of opium given erery four, six or cight hours, will eeldom fail of checkiug the diartheea, whilst it seems to exercise a beneficial influence un the intestinal affection.

Quarter grain doses of the nitrate of silver, with or without opinm, every cix honrs, or afer every liquid evacuation, often exercises a remarkable contrul over these discharges. It shoald bo giveu in the form of pill. Some practitiuners do sut omploy it from fear of its darkening the akir.. I bave used it extensively and ofton continuousiy for a considerable time, and have never yet witneased any such effect from its adminigtratiou.

Alum is another remedy of the astriagent olvar that may be relied upon; it ghould be given in the form of whey. This is made by patting one drachma of powdered al am into a pint of iviling milk. The flaid portion, after separation, may be given in doses of two tablespoonfuls every three or four houra, or oflener if required.

Tympanitis.-Much roliaf may be chlsined from warm fomeatations kept constantly to the awollen intestines, and one of the mont agresable modes of applying them is by means of folds of lint wrung out of boiling water, and placed upon the abdomen as hot as can be borne, coverlug it sfterwards with oiled sills, or gutta percha tissue, to prevent ovaporation ; renewiog the heat from time to tibae, as dosired. When the tympanitic distomion $i_{1}$ considerable, a small quantity of splrity of turpen.
tine may be sprinkled upon the surface of the lint just before applying it. Indeed I am in the habit of keeping tho right iliac region tonder by it whon a more extonded application is unnecessary, or objected to. Compound camphor liniment may be substituted for the turpentine when the latter will not be endured.

When tympanitis occurs carly in the faver, and the potrers of the pationt are not much impaired, s fer leeches may be applied to the abdomen with benefit, following them with emollient fomentations, and the internal exhibition of the acetate of lead. But should the loss of blood be contra-indicated, the lead alone may $b$ employed with turpentine stupes as above directed.

Injections of halt an ounce of tinct. assafotida in a pint of common gruel, or half an ounce of confection of rue in a pint of camphor mixture, if carefully administered, will generally cause the expulsion of e large quantity of the confined air in such cases, to the patient's great relief. Or introducing an asophagus tube gently iato the rectum, or a No. 12 elastic catheter will also give vent to the accumulated air which may be passed through a vessel of water. If cautiously managed, a pump may be attached to the tube, and the air be thus drawn gradually away.
Haemorrhage from the Bovels.-This is a pretty certain indication of intestinal ulceration, the source of the bluod being principally from the ulcerated surface: I have often been surprised at the large quantity disharged without the patient being materially lowered. This happens only in robust subjects; and in such circumstances, We must not hastily interfere with it, but in onfeebled persons, even a moderate discharge calls for prompt measures to arrest it.

The most perfect quietude should be enjoined, cold or iced drinks given, the abdomen coveied with cloths dipped in cold vinegar and water, and sugar of lead in fire-grain doses, with morphine, or a combination of gallic acid and opium, be given st short intervals. But when the bleeding is moderate, a starch and laudanum enema will often alone be sufficient to control it.-(Continucd.)

## En Correspomients.

Necules.-Those employed in the hospitals here, aro the ordinary flovers needles; they are triaugular at their points, and havo three sharp cutiing edges, Apart therefcre, from their cheapness, their ready introduction, renders them much superior to the regular surgeons needles. When required curved they may be easily bent whilst, hot. over a piece of round iron, if the extreme point be held firmly to it with pincers curing the turning. They may also be obtained extremely smail, this is an important point especiaily in operations about the eye, for which we have found them very convenient, having twice performed Critchett's oporation for shortenias the intornal rectus, with littlo glovers' nevdles so curved; this woudd have been very ditficult with any of the smallest surgeons' needle that we have ever seen.
Hov to make a Yinsced Poultico.-Tho ground flax seed omplosed for making poultices, should bo swoet and fresh. and of a yellowish colour; when of a sour taste, or smeli it should be rejected. Fill a tescup lightly with tho mond, rubbing off all that is above the level of its brim, and having put it into a hot bowl, pour over it very nearly tho same quantity of boiling vrater, and beat it up as you would anceg; it will be quito thin at firat, but in a fow minutes of dillsent stirring it will becomo of tho proper consistence. It shotid now be spread from haif an inch to an inch thick, on cotton or soft linen, and bo large enough to cover all tho inilamed part; when, after geessins its surface vith a littlo fresh lard, to provent it from adhering to the skin, it will be ready for application.
Nover mix a poultlec until you wish to put it on, as keoping it hot over a fre or bolling it, renders it stiéky and uncomportable
When rightly made and of the proper temperature, it should feol warm and pleasant, rolieve the pain, assist the
formation of mattor, and by softening the structures th cover it. hasten its appearaure to tho surface.
Foultices shoutd bo changed frequently, and caro bo lai not to expose the party to cold whilist doing yo. Thes s , be continued for a few days after the discharge of the wa ter, when a dressing of simple ointment should bo us: instead.
When applied to offensive ulcers, stir in a tablespoos' of powdered chatcoal before spreading: this will destre the smell and render tho diseharges healthy.

When put upon the head to remove scaly oruptions, $x^{\prime}$ a teaspoonful of common baking soda to earh poultice. sugar of Ausise.--To ten ounces of powdered white $k_{2}$ add by triturition, quarter of an ounce of the oll of anise is much employed here for colic in infants. Direct 1 . child a month old, as much as will lay un a three pe: chide a month old, as much as win lay wn a three pur: begiven in a little milk and water, and be repeated w: necessary.
Modical Works published in Great Britain from tho 4 August to the 1st Sept., 1863, with their sizes, nit bers of pages, pablishers' names, and prices in sterit
Liordet, J. IL, Mfentone in its Medical aspect. fep. pp.i (Churchill) 2 se , id.
Montgomery. F. W., Signs and Symptom or Pregnanerie. other papers connected with Midwifery. and edit. pp 732. (Longman.) \%ss.
Waits, H., Dietionary of Chemistry and the allied hras: of other Sciences. Founded on that of the late Dr. Ints vols, Vol, 1. A-C. 8vo pr. 1170. (Longmani.) 32s. : Error-In our last for "Hardwicke," Charitles of 4 don read:
Low, S. The Charities of London, a new edition coms to April, 2863: with additions 12mo. pp. 490, (SaE:; Low) Js.

## Periodicals received since 15th August.

Lundon Mrediral Times, to 29th Aug.; London Ls: to 29th Aug. ; Boston Med. \& Surg. Journal, to 10th $\mathcal{S}$ Philadelphia Med. \& Surg. Reporter, to $29 t h$ Aug.; Re Med. and Surg. Journai, San Francisco, Juls; Be, Med. S: Surg. Journal. Sent: ; Chicago Medical Exam Aug; American Medical Times, to $12 t h$ Sept.; Cus Medical Journal, Aug. Cincinnati Lancet : 'Obex Aug.; Philadelphia Medical Nows \& Library, S. London Chemist \& Druggist, Aug.; American Drug Iar, Sept.; London Publishers' Circular, to 1st Sept. ; 15 can Publishers' Circular, to 1st Sept.; Philadelphia in: Cosmos, Sept.

## Books and Pamphlets received during the Mont

The Urine in Health and Disease by Arthur A. His M.D. Churchill \& Sons, New Burlington st., London Progress of Ophthalmic Surgery, from the invent the Ophthalmoscope in 1851 up to the present time, Z. Lawrence, F.R.C.S., M,D. A Pamphlet.

Ellis t Ford's illustrations of 「issections, parts $1, \mathrm{sm}$ Waiton $\&$ Siaberly
Test-types for the Dotermination of the Acutas? Yision by H. Snellen. M.D. P. W. Yan do Woijer. Úri Caso of Puerperal Convulsions, complicated with 3 by Archibald Hall, M.D. Edin, A Pamphlet, From Author.

Subscriptions paid since August 15th.
Dr.W. Marsden. Quebec; Mr. A. H. Baker Coaticoin, C. Claggott Northtield, Vt.; Br. J. H. Wheoler. D N. H. ibr. C. D. Proctor, Montreal; Dr. F. Violetti, Ely; Dr. A. Dykeman, Lacollo ; Dr. R. R. Buntiog. borough, Ya,; Dr. E. B. Sparham, Brockvillo.

## BIRTES.

On the 13th Aug., the wife of Dr. Oruton, Fairviex caster, of a son.

## MARRIAGES.

At Stanstead, on the 18th Aug., by tho Rev. J. Toi' Dr. J. W. Huntoon, to Ellen W., daughter of tit Phineas Lubbard, Esq.
In this city, on the 3 Jrd Sept., by the Rev. J. B. Bors P. Campbeli, Esq, II. D., of Athol. C. W., to Alite, 3 daughter of the late Mr. James Bell, of Montreal.
The Ganada Lancet is published monthly at tho p ono dollar, (or four shillings storiiug) per annum. Wh tances may be mado to W. E. Bowman, M.D., Edita * Proprictor, or to DIr. Jolan Lovell.
Subscriptions will bo received in Great Britpin by S. KLaw \& Son, 11 Aldersgato st., London, E. C., wto forwerd any books or publications intended for notion, PRINTED DY JOHN LOVELLE, ST. NIOHOLAS ST., MONTA

